

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 98/00273

A. CLASSIFICATION OF SUBJECT MATTER

IPC6: F28F 3/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC6: F28D, F28F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE, DK, FI, NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SE 9001261 A (JÖRG LILLJEQVIST), 7 October 1991 (07.10.91), see the whole document, in particular figs. 1-4 and claim 7 --	1-10
A	WO 9641995 A1 (TETRA LAVAL HOLDINGS & FINANCE S.A.), 27 December 1996 (27.12.96) --	1-10
A	DE 4207761 A1 (WIDSCHWENDTER, ARNULF, WÖRGL), 17 Sept 1992 (17.09.92) --	1,7-10
A	US 4903758 A (COWAN), 27 February 1990 (27.02.90) --	7-10

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

20 May 1998

Date of mailing of the international search report

15 -06- 1998

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INTERNATIONAL SEARCH REPORTInternational application No.
PCT/SE 98/00273**C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Patent Abstracts of Japan, Vol 12, No 448, M-788 abstract of JP 63-180084 A (HISAKA WORKS LTD), 25 July 1988 (25.07.88) --	1
A	US 1754857 A (A.D. HARRISON), 15 April 1930 (15.04.30) --	
A	US 2193405 A (H.F. GOODMAN), 12 March 1940 (12.03.40) --	
A	SE 109204 C (THE ALUMINIUM PLANT AND VESSEL COMPANY LIMITED), 7 December 1943 (07.12.43) -- -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

29/04/98

International application No.

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Patent document cited in search report	Publication date	Patent family member(s)		Publication date
SE 9001261 A	07/10/91	NONE		
WO 9641995 A1	27/12/96	AU 6021496 A EP 0832409 A SE 9502135 D		09/01/97 01/04/98 00/00/00
DE 4207761 A1	17/09/92	AT 395354 B		10/12/92
US 4903758 A	27/02/90	CN 1031780 A GB 2208005 A		15/03/89 15/02/89
US 1754857 A	15/04/30	NONE		
US 2193405 A	12/03/40	NONE		
SE 109204 C	07/12/43	NONE		